



**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/876,775	06/16/97	DIXON	R 226/132
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LM61/0819

LYON & LYON  
34TH FLOOR  
611 W SIXTH ST  
LOS ANGELES CA 90017

**EXAMINER**

BANKS-HAROLD, M

**ART UNIT**

**PAPER NUMBER**

2745

7

DATE MAILED:

08/19/98

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

*Regards,*

*M.D. Banks Harold  
(703) 305-4379*



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

LM61/0819

LYON & LYON  
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611 W SIXTH ST  
LOS ANGELES CA 90017

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
08/876,775	06/16/97	020	BANKS-HAROLD, M	2745 08/19/98
First Named Applicant	DIXON, ROBERT C.			

TITLE OF INVENTION THREE CELL WIRELESS COMMUNICATION SYSTEM

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
2 226/132		455-422.000	103 UTILITY	NO	\$1320.00	11/19/98

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

**I. Review the SMALL ENTITY status shown above.**

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

**II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.**

**III. All communications regarding this application must give application number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.**

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

PATENT AND TRADEMARK OFFICE COPY

# PART B—ISSUE FEE TRANSMITTAL

Complete and mail this form, together with applicable fees, to: **Box ISSUE FEE**  
**Assistant Commissioner for Patents**  
**Washington, D.C. 20231**

**MAILING INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE. Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Issue Fee Receipt, the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

LYON & LYON  
 34TH FLOOR  
 611 W SIXTH ST  
 LOS ANGELES CA 90017

LM61/0819

Note: The certificate of mailing below can only be used for domestic mailings of the Issue Fee Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing.

## Certificate of Mailing

I hereby certify that this Issue Fee Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above on the date indicated below.

YVETTE PESINA

(Depositor's name)

*Yvette Pesina*

(Signature)

9-16-98

(Date)

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
08/876,775	06/16/97	020	BANKS-HAROLD, M	2745 08/19/98
First Named Applicant: DIXON, ROBERT C.				

TITLE OF INVENTION: THREE CELL WIRELESS COMMUNICATION SYSTEM

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 12-2475. A duplicate copy of this sheet is enclosed.

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
2	226/132	455-422.000	103	UTILITY	NO	\$1320.00 11/19/98

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Use of PTO form(s) and Customer Number are recommended, but not required.

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47) attached.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. LYON & LYON LLP

2. \_\_\_\_\_

3. \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)  
**PLEASE NOTE:** Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the PTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

OMNIPOINT CORPORATION

(B) RESIDENCE (CITY & STATE OR COUNTRY)

COLORADO SPRINGS, COLORADO

Please check the appropriate assignee category indicated below (will not be printed on the patent)

☐ Individual ☒ corporation or other private group entity ☐ government

4a. The following fees are enclosed (make check payable to Commissioner of Patents and Trademarks): CHECK NO. 44948

☒ Issue Fee

☒ Advance Order - # of Copies 14

4b. The following fees or deficiency in these fees should be charged to:

DEPOSIT ACCOUNT NUMBER 12-2475  
 (ENCLOSE AN EXTRA COPY OF THIS FORM)

☒ Issue Fee

☒ Advance Order - # of Copies

The COMMISSIONER OF PATENTS AND TRADEMARKS IS requested to apply the Issue Fee to the application identified above.

(Authorized Signature)

(Date)

NOTE: The Issue Fee will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the Patent and Trademark Office.

**Burden Hour Statement:** This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND FEES AND THIS FORM TO: Box Issue Fee, Assistant Commissioner for Patents, Washington D.C. 20231

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMIT THIS FORM WITH FEE

# Notice of Allowability

Application No.

08/876,775

Applicant(s)

DIXON

Examiner

Marsha D. Banks-Harold

Group Art Unit

2745

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

☒ This communication is responsive to the terminal disclaimer filed on 08/05/98.

☒ The allowed claim(s) is/are 17-36.

☐ The drawings filed on \_\_\_\_\_ are acceptable.

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_.

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

☒ Applicant MUST submit NEW FORMAL DRAWINGS

☐ because the originally filed drawings were declared by applicant to be informal.

☒ including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. 5.

☐ including changes required by the proposed drawing correction filed on \_\_\_\_\_, which has been approved by the examiner.

☐ including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

## Attachment(s)

☐ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

☐ Interview Summary, PTO-413

☐ Examiner's Amendment/Comment

☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

☒ Examiner's Statement of Reasons for Allowance

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## DETAILED ACTION

### *Acknowledgment of Terminal Disclaimer Accurateness*

1. The examiner acknowledges the receipt and accurateness of the terminal disclaimer.

### *Drawings*

2. The application having been allowed, formal drawings are required in response to this Office action.

### *Allowable Subject Matter*

3. **Claims 17-36** are allowed.
4. The following is an examiner's statement of reasons for allowance:

Regarding **claim 17**, the prior art of record failed to specifically disclose or fairly suggest a wireless communication system comprising a pattern of cells, a base station, and one or more user stations, wherein the base station was assigned a first frequency for transmission to a first cell and where the first transmission frequency was not assigned to any other base station for transmission to any cell in the pattern of cells adjacent to the first cell. In addition, the prior art of record failed to specifically disclose or fairly suggest where each user station in the first cell is assigned a second transmission frequency for transmission to the base station, where the second transmission

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frequency is not assigned to any other user station in any cell in the pattern of cells adjacent to the first cell.

Regarding **claim 23**, the prior art of record failed to specifically disclose or fairly suggest a wireless communication system comprising a pattern of cells, a base station, and one or more user stations, wherein the base station was assigned a first frequency for transmission to a first cell and where the first transmission frequency was not assigned to any other base station for transmission to any cell in the pattern of cells adjacent to the first cell. In addition, the prior art of record failed to specifically disclose or fairly suggest where each user station in the first cell is assigned the first transmission frequency for transmission to the base station, where the communications are time division duplexed.

Regarding **claim 28**, the prior art of record failed to specifically disclose or fairly suggest a wireless communication system comprising a pattern of cells, a base station, and one or more user stations, wherein the base station was assigned a first frequency for transmission to a first cell and where the first transmission frequency was not assigned to any other base station for transmission to any cell in the pattern of cells adjacent to the first cell. In addition, the prior art of record failed to specifically disclose or fairly suggest where each user station in the first cell is assigned a second transmission frequency for transmission to the base station, where the second transmission frequency is not assigned to any other user station in any cell in the pattern of cells adjacent to the first cell. In addition, the base station was further assigned a first spread spectrum code for modulating radio communication for the first cell and where the user stations in the first cell were

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each assigned a second spread spectrum code for modulating radio communication from the first cell.

The prior art of record provided numerous teachings of preventing wireless communication systems used for the separation of various frequencies. However, the prior art of record failed to specifically disclose or fairly suggest the claimed wireless communication system with the elements as previously described above.

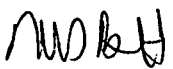
### Conclusion

5. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marsha D. Banks-Harold whose telephone number is (703) 305-4379. The examiner can normally be reached on Monday through Thursday (first week of bi-week) and Monday through Friday (second week of bi-week) from 6:30 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reinhard Eisenzopf, can be reached on (703) 305-4711. The fax phone number for this Group is (703) 305-9508.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700.

  
MDB-H/mdb-h  
August 14, 1998

  
REINHARD J. EISENZOPF 8-17-98  
SUPERVISORY PATENT EXAMINER  
GROUP 2700